ELECTRONIC CATALOGUE
CUSTOMER'S AMENDMENTS
ISSUE 4 — April 2012

	Amendment
	CANCELLATION **AN200-10 Cancelled, no replacement** **AN204-14 Cancelled, no replacement**
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	CANCELLATION **BA045-10 Cancelled, offer BA045-20**
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	CANCELLATIONS **BB527-11 Cancelled, offer BB527-12** **BB528-10 Cancelled, offer BB528-12** **BB528-24 Cancelled, offer BB528-26** **BB586-50 Cancelled, offer BB605-97** **BB605-95 Cancelled, offer BB605-97** **NEW ITEMS** **BB527-12** **Printer Cable adapter for connecting BB527-09 to BB528-12 for BB525-/BB540-series** **Impact printer, SRP275** **With paper rolls, ribbon and mains adapter for 230V 50Hz supplies. Requires printer cable adapter for connection to balances with RS232 output only.** **BB528-12** **Printer SRP275** **BB528-26** **Ink ribbon cassette for BB528-12, pack of 1** **BB605-97** **Printer cable adapter for connecting BB577-/582-/590-/610-/625-/865-series to BB528-12 printer**

CANCELLATIONS

CL860-25 Cancelled, offer CL900-15
CL865-20 Cancelled, no replacement
CL865-40 Cancelled, no replacement
CL869-30 Cancelled, no replacement

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CANCELLATIONS

CM610-10 Cancelled, offer CM610-11
CM610-15 Cancelled, offer CM610-16
CM625-50 Cancelled, offer CM615-52
CM640-10 Cancelled, offer CM620-15
CM640-15 Cancelled, offer CM620-35

NEW ITEMS

Applicator swabs
Cotton wool tipped, packed as indicated.

	Tip	Shaft	Sterile	Inner pack	Pack qty.
CM610-11	Plain	Wood	No	100/bag	5000
CM610-12	Plain	Wood	Yes	100/bag	5000
CM610-16	Plain	Wood	Yes	1/pouch	1000

Culture swabs
Cotton wool tipped. Individually packed with storage tube.

	Tip	Shaft	Sterile	Inner pack	Pack qty.
CM615-40	Plain	Wood	Yes	1/tube	500
CM615-44	Charcoal	Wood	Yes	1/tube	500
CM615-48	Plain	Aluminium	Yes	1/tube	100
CM615-52	Viscose	Aluminium	Yes	1/tube	100

Probact^{TM} Transport swabs
Complete sampling kits for collection preservation and transport of microbiological specimens. Comply with European Medical Device Directive 93/42/EEC and CLSI M40-A compliant. Comprising cotton wool or viscose (rayon) tipped swab and separate tube of transport medium as indicated.

	Medium	Tip	Shaft	Pack qty.
CM620-10	Amies clear	Cotton	Aluminium	100
CM620-15	Amies clear	Viscose	Plastic	100
CM620-20	Amies clear	Cotton	Wire	100
CM620-30	Amies charcoal	Cotton	Aluminium	100
CM620-35	Amies charcoal	Viscose	Plastic	100
CM620-40	Amies charcoal	Cotton	Wire	100

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NEW ITEMS

Conductivity Meters

Bench Conductivity Meters, FiveEasy Plus^{TM}
Generally as existing CU665-series, but include the following additional features:

- ❐ **RS232 interface for data transfer to the user's PC**
- ❐ **Data storage memory of 99 measurements**

Supplied as a kit with conductivity probe, probe arm, 2 x 1413µS/cm and 2 x 12.88mS/cm standard sachets, power adapter and instructions. Alternatively, the meter can be supplied on its own with power adapter and instructions only.

CU665-22   FEP30-Kit industrial
CU665-57   FEP30-Basic industrial

NEW ITEMS

Microorganism Preservation System, Protect
Bead storage system for long-term maintenance of stock and quality control of microorganisms during cryopreservation.

- ❑ **Frozen storage of fastidious and non-fastidious organisms**
- ❑ **Enables frequent uses to guarantee consistent and reliable performance control**
- ❑ **Each vial provides 20 subcultures, dramatically reducing cost per test against traditional methods**
- ❑ **CE marked and FDA approved for assured quality and traceability**
- ❑ **Gamma irradiated sterile to SAL10^{-6} for total product confidence**

In use, a suspension of the organism is created using liquid included in the vial, which is then reintroduced into the vial and shaken with the beads to coat them. The liquid is then withdrawn with an accessory fine tip pasteur pipette and discarded. The coated beads can then be cryopreserved. Recovery is undertaken by aseptically removing a bead and rolling onto plated medium using an inoculating needle or placing in broth and incubating.

Microorganism Preservation System, Protect
As described, in packs of vials as indicated with mixed, matching, colour-coded beads and caps in blue, green, red, white and yellow.

CX925-10   Card box of 100 vials
CX925-15   Polypropylene box of 100 vials
CX925-45   Bulk pack of 1000 vials

Accessories
PP474-41   Fine tip pasteur pipettes, pk.1000
CM676-43   Needles, media inoculators, pk.1000

NEW ITEMS

Desiccator Cabinets

☐ **Rigid aluminium frame with non-slip rubber feet (DE425-30) or castors (DE425-35) and borosilicate glass panels offering chemical resistance to most acids and organic substances**
☐ **Stainless steel shelves allow storage of hot products up to +300°C (if placed at the centre of the shelf)**
☐ **Built-in thermohygrometer**
☐ **Rounded edges and gasket-lined door(s) with magnetic strip closure**

		DE425-30	DE425-35
Capacity	**litres**	**42**	**140**
No. of compartments (doors)		**1**	**2**
Number of shelves			
per compartment		**4**	**2**
Internal dimensions W x D x H	**mm**	**260 x 330 x 480**	**495 x 540 x 500**
External dimensions W x D x H	**mm**	**310 x 375 x 525**	**560 x 580 x 1150**
Weight	**kg**	**14**	**42**

As described. Rigid aluminium frame with rounded edges, borosilicate glass panels, gasket-lined door(s) with magnetic strip closure and mounted thermohygrometer, desiccant tray, and four removable stainless steel shelves which are adjustable for height.

DE425-30   Desiccator cabinet, 42 litre
DE425-35   Desiccator cabinet, 140 litre

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CANCELLATION

FC282-03 Cancelled, no replacement

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CANCELLATION

FD240-16 Cancelled, offer FD240-30

NEW ITEMS

<u>**Cooled Incubators**</u>

<u>**Lovibond**</u>

- **Temperature range +2 to +40°C x 0.1^{o}C**
- **Temperature fluctuation ±1°C (stirred 500ml water at centre of cabinet).**
  For BOD (T = 20°C): ±0.5^{o}C
- **Backlit LED temperature display**
- **Fan-assisted cooling**
- **Choice of glass-panelled or solid door models**
- **R600a refrigerant**
- **Built-in internal sockets (Europlug, Schuko-type) for operating instruments inside the cabinet**

Model	Solid door, ET-	618-4	—	626-5	—
	Glass door, ET-	—	619-4	—	627-5
Capacity	litres	135	140	195	195
Internal	H, mm	700 (850)	700 (885)	1045 (1216)	1045 (1216)
(External)	W, mm	430 (600)	443 (600)	415 (600)	415 (600)
	D, mm	515 (600)	515 (600)	515 (600)	515 (600)
Shelves supplied		3	3	4	4
Internal sockets Supplied		4	4	5	5
Net weight	kg	39	50	49	66.5

Model	Solid door, ET-	636-6	—	650-8	—
	Glass door, ET-	—	637-6	—	651-8
Capacity	litres	280	280	395	395
Internal	H, mm	1450 (1590)	1450 (1590)	1300 (1516)	1300 (1516)
(External)	W, mm	415 (600)	415 (600)	515 (710)	515 (710)
	D, mm	515 (600)	515 (600)	652 (752)	652 (752)
Shelves supplied		5	5	5	5
Internal sockets Supplied		6	6	8	8
Net weight	kg	64.5	82.0	79.5	98.5

As described. With digital controller and backlit LED display, solid or glass-paned door and shelves and sockets as indicated. For 230V 50Hz single phase supplies.

<u>**Solid door models**</u>
IN686-10   ET 618-4
IN686-20   ET 626-5
IN686-30   ET 636-6
IN686-40   ET 650-8

<u>**Glass door models**</u>
IN686-60   ET 619-4
IN686-70   ET 627-5
IN686-80   ET 637-6
IN686-90   ET 651-8

NEW ITEM

<u>**UB-100i Microscope, Zenith**</u>

- ☐ **Magnification 40X to 1000X**
- ☐ **30° inclined, Seidentopf binocular head rotatable through 360°**
- ☐ **Full interpupillary adjustment (52-75mm)**
- ☐ **Reversed position, quadruple nosepiece with DIN standard, parfocal, parcentered, infinity achromatic objectives**
- ☐ **Co-axial coarse and fine focussing with indexed scale**
- ☐ **Smooth action x-y mechanical stage 142 x 135mm with co-axial drop controls and spring arm**
- ☐ **Built-in 6V 20W halogen illumination with continuously variable brightness control**

Magnification 40X to 1000X. With 30° inclined, Seidentopf binocular head rotatable through 360° and 52 to 75mm interpupillary adjustment. Co-axial coarse and fine focussing with indexed scale and adjustable focus tension. Reversed, quadruple nosepiece turret. Smooth action mechanical stage 142 x 135mm with co-axial drop controls, sprung slide clip and x-y movement (max. 76mm x, 50mm y). Also features a height adjustable, brightfield Abbe condenser with colour-coded iris diaphragm scale and filter carrier. Built-in, 6V 20W halogen illumination with continuously variable brightness control.

Eyepieces - WPL 10XD paired, high eyepoint, 18mm field, 21mm eyepoint
Objectives - Infinity achromatic, 4XD, 10XD. 40XRD, 100XRD (oil), parfocal, parcentred

Supplied complete with dust cover. Overall 190 x 270 x 340mm W x D x H. Weight 6.5kg. For 230V 50Hz single phase supplies.

MJ299-10   UB-100i

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CANCELLATION

MN643-05 Cancelled, offer MN643-54

NEW ITEMS

Microplate Readers Zenyth 340r/340rt Anthos
High-performance microplate readers with optional temperature control for routine assays in research, quality control and diagnostic applications.

- ❑ **Controlled via the user's personal computer using software provided**
- ❑ **Accommodates plate formats from 6- to 384-well with standard ANSI SBS footprints**
- ❑ **Readings can be time defined for kinetic assays**
- ❑ **Linear and area scan capability**
- ❑ **Temperature control model available for temperature sensitive assays**
- ❑ **Applications include:**
  - **Absorbance measurements: ELISA, total protein, cell proliferation and toxicity assays**
  - **Enzyme kinetic assays requiring automatic readings at timed intervals**
  - **Linear scan: for verification of agglutination and coagulation studies**
  - **Area scan: for precipitation and insolubility studies**
  - **Cell counting**

ADAP 2.0 BASIC Software
Supplied as standard with the Zenyth 340-series. Can be used to control all mechanical functions including the plate drawer, filter selection, calibration, end point kinetic and multi-wavelength measurements. Data is easily exported into Microsoft^{TM} Excel. Also controls user access at different authorisation levels allowing users to work within FDA 21 CFR part 11 compliance.

Wavelength range x accuracy	**nm**	**340 to 750 x 2**
Bandwidth	**nm**	**8**
Absorbance range x resolution	**O.D.**	**0.000 to 4.000 x 0.0001**
Accuracy		**<±1.5% at 1 O.D.**
Detector		**Silicon photodiode**
Reading speed (96-well plate)	**secs.**	**18**
Shaking speeds		**3**
Standard filters*	**nm**	**340, 405, 492, 620 on filter wheel**
Interface		**RS232 control and data transfer**
Supply requirements		**110 to 240V 50/60Hz single phase supplies**
Overall W x D x H	**mm**	**468 x 408 x 251**
Weight	**kg**	**15**

*An additional 3 filters can be fitted - details on request

As described. Supplied with five standard filters, dust cover, fuses, interface and power cables, ADAP Basic software and user manual CD's. Model 340rt additionally incorporates plate temperature control from ambient +4°C up to +45°C in 1°C steps. For 100-240V 50/60Hz single phase supplies.

MN643-20   Zenyth 340r
MN643-25   Zenyth 340rt

ADAP 2.0 Plus Software
Additionally to the functions of the BASIC software, offers quantitative evaluation using standard curves, forecasting, curve-fitting, qualitative analysis, transformation formulas, plate layout mapping, replicate elimination and test validation formulas, for Q.C. and graphical interpretation of multi-wavelength measurements.

MN643-54   ADAP 2.0 PLUS software

CANCELLATION

OV930-20 Cancelled, offer OV930-40

NEW ITEM

<u>Vacuum Oven</u>

<u>Fistreem</u>

- ☐ **Rectangular light alloy chamber, capacity 31 litres**
- ☐ **Temperature range +30 to +200°C**
- ☐ **PID controller with overtemperature alarm indicator**
- ☐ **Large door window with polycarbonate safety shield allows unobstructed viewing of the chamber**
- ☐ **Two valves provided, for vacuum connection and inert/dry air gassing, respectively**
- ☐ **Analogue vacuum gauge included, range 0 to 1000mbar**
- ☐ **Independent overtemperature safety protection in the event of controller failure**

Catalogue No.		**OV930-40**
Usable volume	**litres**	**31**
Temperature range	**^{o}C**	**+30 to +200**
Internal, W x D x H	**mm**	**375 x 310 x 260**
External W x D x H	**mm**	**650 x 425 x 420**
Shelves supplied		**2**
Shelf positions		**3**
Inlet/Outlet connections		**for 10 to 12mm i.d. tubing**
Power rating	**W**	**1000**
Weight	**kg**	**43**

<u>Vacuum Oven +30 to +200°C</u>
As described. With rectangular light alloy chamber, PID controller, vacuum and exhaust valves and gauge. For 220-240V 50Hz supplies.

OV930-40   Vacuum oven, capacity 31 litres

NEW ITEMS

pH Meters

Bench pH Meters, FiveEasy Plus^{TM}
Generally as existing PH615-series, but include the following additional features:

☐ **RS232 interface for data transfer to the user's PC**
☐ **3-point calibration, with 4 pre-defined buffer groups**
☐ **Data storage memory of 99 measurements**

Supplied as a kit with pH electrode, electrode arm, 2 x pH 4.01 and pH 7.00 buffer.
Alternatively, the meter can be supplied on it's own with power adapter and instructions only.

PH615-12   FEP20-Kit industrial
PH615-22   FEP20-Basic industrial

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AMENDMENT

PX470-30 is now 30 litres/minute.

All other details remain unchanged.

NEW ITEMS

Pumps, Liquid

Diaphragm Metering Pumps, STEPDOS®

KNF

Precise dosing, liquid pumps for metering small to medium volumes of aqueous and low viscosity solutions up to 150cST.

- ☐ **2 programme modes**
  - **— 'Run', for continuous pumping**
  - **— 'Timer', for adjustment of stroke, number, operating or pause period**
- ☐ **Self-priming and able to run dry**
- ☐ **Low 'dead' volume**
- ☐ **Integral solenoid valve prevents dripping or backflow when the pump has stopped**
- ☐ **Suitable for corrosive or non-corrosive liquids with PTFE-coated diaphragm and FFPM valves**
- ☐ **Choice of pumphead material in contact with media - polypropylene, PVDF, PTFE or stainless steel**

Model		FEM03**18S	FEM08**18S
Flow rate	**ml/min***	**0.03 to 30**	**0.08 to 80**
Metering volume		**50µl to 43.2 litres**	**80µl to 115.2 litres**
Pressure head	**mWg**	**60**	**20**
Suction head	**mWg**	**4**	**3**
Housing protection level		**IP65 —all models**	
Overall H x W x D	**mm**	**80 x 115 x 180 —all models**	
Weight	**kg**	**1.5 —all models**	

*Using water at 20°C and zero pressure head
**Pump head material code key:
KT. = polypropylene   TT. = PVDF   FT. = PTFE   ST. = Stainless Steel

Diaphragm Metering Pumps, STEPDOS®
As described. For 100-230V 50/60Hz single phase supplies. In pumphead material and with fittings as indicated.

PX580-10   FEM03KT.18S, UNF $^1/_4$"-28 fitting
PX580-15   FEM03TT.18S, UNF $^1/_4$"-28 fitting
PX580-20   FEM03FT.18S, UNF $^1/_4$"-28 fitting
PX580-25   FEM03ST.18S, UNF $^1/_4$"-28 fitting

PX585-10   FEM08KT.18S, DN4/6 fitting
PX585-15   FEM08TT.18S, DN4/6 fitting
PX585-20   FEM08FT.18S, NPT $^1/_8$"
PX585-25   FEM08ST.18S, NPT $^1/_8$"

Diaphragm Liquid Pumps, LIQUIPORT®

KNF

Convenient, simple transfer or dosing pumps for corrosive or non-corrosive liquids.

- ❑ **Self-priming and able to run dry**
- ❑ **Low maintenance design**
- ❑ **PTFE-coated diaphragm and FFPM valves, with choice of pumphead material in contact with media - polypropylene, PVDF or PTFE**
- ❑ **Continuously adjustable flow rate with dial control with LED indicators which illuminate sequentially as the rate is increased**

Model		NF100**18S	NF1.100**18S
Flow rate	l/min*	0.2 to 1.3	0.2 to 1.3
Pressure head	mWg	10	60
Suction head	mWg	3 — all models	
Housing protection level		IP65 — all models	
Hose connection	o.d. mm	8 —all models	
Overall H x W x D	mm	180 x 100 x 130mm —all models	
Weight	kg	1 — all both models	

Model		NF300**18S	NF1.300**18S
Flow rate	l/min*	0.5 to 3.0	0.5 to 3.0
Pressure head	mWg	10	60
Suction head	mWg	3 — all models	
Housing protection level		IP65 — all models	
Hose connection	o.d. mm	12 — all models	
Overall H x W x D	mm	190 x 110 x 160mm —all models	
Weight	kg	1.5 —all models	

*Using water at 20°C and zero pressure head
**Pump head material code key
KT. = polypropylene   TT. = PVDF   FT. = PTFE

Diaphragm Liquid Pumps, LIQUIPORT®
As described. For 100-230V 50/60Hz single phase supplies. In pumphead material as indicated.

PX587-06   NF100KT.18S
PX587-12   NF100TT.18S
PX587-18   NF100FT.18S
PX587-24   NF1.100KT.18S
PX587-30   NF1.100TT.18S
PX587-36   NF1.100FT.18S

PX589-07   NF300KT.18S
PX589-13   NF300TT.18S
PX589-19   NF300FT.18S
PX589-25   NF1.300KT.18S
PX589-31   NF1.300TT.18S
PX589-36   NF1.300FT.18S

CANCELLATIONS

RA405-12 Cancelled, offer RA405-17
RA414-13 Cancelled, offer RA612-35
RA420-14 Cancelled, no replacement

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CANCELLATION

SL804-10 Cancelled, no replacement

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NEW ITEMS

Steriliser, Quartz Bead
Small, economic steriliser for small instruments and probes. Sterilising temperature 240°C. Epoxy painted steel housing with insulated sterilising chamber 65 x 75mm diameter x height. Overall 160 x 129 x 150mm W x D x H. Weight 1.7kg. Supplied with one charge of quartz beads. For 230V 50Hz single phase supplies. 160W.

SP850-10   Steriliser, quartz bead
SP852-05   Spare quartz bead charge for SP850-10

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CANCELLATION

TD178-24 Cancelled, offer TD308-20

NEW ITEMS

Test Paper
Supplied a pack of 10 books, each book containing 20 leaves.

TD308-20   Congo red

T H E   E N D

April 2012

CAT. NO.	PRICE £	Per	CODE
BB527-12	12.00	each	AB
BB528-12	288.00	each	AB
BB528-26	6.00	each	AB
BB605-97	60.00	each	AB
CM610-11	106.75	pack	RO
CM610-12	111.00	pack	RO
CM610-16	91.00	pack	RO
CM615-40	109.00	pack	RO
CM615-44	120.00	pack	RO
CM615-48	50.50	pack	RO
CM615-52	56.00	pack	RO
CM620-10	62.50	pack	RO
CM620-15	23.00	pack	RO
CM620-20	57.00	pack	RO
CM620-30	62.50	pack	RO
CM620-35	41.50	pack	RO
CM620-40	57.00	pack	RO
CU665-22	657.00	each	KM
CU665-57	551.00	each	KM
CX925-10	98.00	pack	RO
CX925-15	122.00	pack	RO
CX925-45	730.00	pack	RO
DE425-30	1125.00	each	OO
DE425-35	3455.00	each	OO
IN686-10	978.00	each	FO
IN686-20	1270.00	each	FO
IN686-30	1450.00	each	FO
IN686-40	1755.00	each	FO
IN686-60	1110.00	each	FO
IN686-70	1410.00	each	FO
IN686-80	1630.00	each	FO
IN686-90	1945.00	each	FO
MJ299-10	419.00	each	BO
MN643-20	6884.00	each	FO
MN643-25	7790.00	each	FO
MN643-54	700.00	each	FO
OV930-40	2520.00	each	BO
PH615-12	519.00	each	KM
PH615-22	397.00	each	KM
PX580-10	963.00	each	SO

PX580-15	**1029.00**	**each**	**SO**
PX580-20	**1640.00**	**each**	**SO**
PX580-25	**1820.00**	**each**	**SO**
PX585-10	**1022.00**	**each**	**SO**
PX585-15	**1180.00**	**each**	**SO**
PX585-20	**1810.00**	**each**	**SO**
PX585-25	**2095.00**	**each**	**SO**
PX587-06	**452.00**	**each**	**SO**
PX587-12	**717.00**	**each**	**SO**
PX587-18	**1342.00**	**each**	**SO**
PX587-24	**537.00**	**each**	**SO**
PX587-30	**639.00**	**each**	**SO**
PX587-36	**1572.00**	**each**	**SO**
PX589-07	**1705.00**	**each**	**SO**
PX589-13	**820.00**	**each**	**SO**
PX589-19	**992.00**	**each**	**SO**
PX589-25	**687.00**	**each**	**SO**
PX589-31	**744.00**	**each**	**SO**
PX589-36	**1955.00**	**each**	**SO**
SP850-10	**160.00**	**each**	**BO**
SP852-05	**7.00**	**each**	**BO**
TD308-20	**3.30**	**pack**	**RO**
	3.00	**pack per 15**	

T H E   E N D